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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,189	03/26/2004	Mark Grayson	062891.1216	8023
5073	7590	11/16/2007		
BAKER BOTTS L.L.P. 2001 ROSS AVENUE SUITE 600 DALLAS, TX 75201-2980			EXAMINER LY, ANH VU H	
			ART UNIT 2616	PAPER NUMBER
			NOTIFICATION DATE 11/16/2007	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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## Office Action Summary

Application No.

10/810,189

Applicant(s)

GRAYSON ET AL.

Examiner

Anh-Vu H. Ly

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 31 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-44 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-44 is/are rejected.
- 7) ☒ Claim(s) 19 and 29 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Response to Amendment***

1. This communication is in response to Applicants' amendment filed October 31, 2007.  
Claims 1-44 are pending.

### ***Claim Objections***

2. Claims 19 and 29 are objected to because of the following informalities:

With respect to claim 19, in line 1, insert --wherein-- before "the one or more".

With respect to claim 29, in lines 1-2, replace "wherein directing a plurality of enabler mobiles" with --wherein directing the at least one enabler mobile of the plurality of enabler mobiles--.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-4, 6-9, 11-14, and 16-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toth et al (US 2005/0053068 A1) in view of Igarashi et al (US 2003/0223422 A1). Hereinafter, referred to as Toth and Igarashi.

With respect to claims 1, 6, 11, 28, 33, 38, 43, and 44, Toth discloses a method for providing a multicast service (Fig. 1), comprising:

maintaining multicast service information at an application server (Fig. 1, GGSN1 which including memory and processors for storing multicast state), the multicast service information describing a multicast service having an associated subscriber (Fig. 1, M1-M10), the multicast service operates to deliver multicast content from a multicast source (page 3, 50<sup>th</sup> paragraph – a multicast source (MCS) is coupled to the GGSN and delivers for instance various multicast services such as streaming video and audio);

determining a cell supporting a user device associated with the subscriber (Fig. 1, M1-M3 coupled to RAN1);

initiating creating of a bearer path for the multicast service (page 4, 81<sup>st</sup> paragraph – SGSN informs the RAN that mobile station is joining the multicast group, so that the proper radio access bearer can be set up for the given multicast session).

Toth does not disclose directing an enabler mobile to facilitate delivery of the multicast content to the user device using the bearer path, the enabler mobile located in the cell for which the enable mobile enables delivery, the enabler mobile substantially fixed in position and distinct from a base station operable to communicate the multicast content to the user device, the enabler mobile further distinct from a base station controller.

Igarashi discloses an access router AR1 for delivering multicast content to MT located in a cell (Fig. 1A). Herein, AR1 is fixed and distinct from a base station or a base station controller. It would have been obvious to one having ordinary skilled in the art at the time the invention was made to include access routers in Toth's system, as suggested by Igarashi, to deliver multicast content to users.

With respect to claims 2, 7, 12, and 44, Toth discloses determining an enabler mobile corresponding to the cell supporting the user device; and instructing the enabler mobile to initiate creation of a radio access bearer (page 4, 81<sup>st</sup> paragraph – SGSN informs the RAN that mobile station is joining the multicast group, so that the proper radio access bearer can be set up for the given multicast session. Herein, RAN is already determined as the RAN serving the mobile station).

With respect to claims 3, 8, 13, 30, 35, 40, and 44, Toth discloses communicating one or more parameters associated with the bearer path to the user device, the user device operable to use the parameters to receive the multicast content (page 4, 87<sup>th</sup> paragraph – SGSN notifies the mobile station of the radio access bearer and quality of service defined for the multicast session).

With respect to claims 4, 9, 14, 31, 36, and 41, Toth discloses establishing a multicast service level of the multicast service in accordance with the cell supporting the user device (page 4, 78<sup>th</sup> paragraph – GGSN decide the quality of service to use for the distribution of the multicast group based on information from the source, operator settings and/or the mobile terminal).

With respect to claims 16, 18, and 20, Toth discloses a method to provide a multicast service (Fig. 1), comprising:

receiving at an enabler device an instruction to create a radio access bearer for a multicast service and creating radio access bearer for the multicast service in response to the instruction (page 4, 81<sup>st</sup> paragraph – SGSN informs the RAN that mobile station is joining the multicast

group, so that the proper radio access bearer can be set up for the given multicast session. As known in the art RAN comprises RNC and BS. Herein, RNC of RAN (enabler device) receives instructions and performs establishing a radio access bearer for a multicast service), the multicast service operates to deliver multicast content from a multicast source (page 3, 50<sup>th</sup> paragraph – a multicast source (MCS) is coupled to the GGSN and delivers for instance various multicast services such as streaming video and audio); the enabler device assigned to a cell supporting a user device (Fig. 1, M1-M4 connect to RNCE of RAN 1 in a cell);

opening a PDP context for the radio access bearer (page 4, 79<sup>th</sup> paragraph- GGSN sends a multicast context activation message to the SGSN).

Toth does not disclose directing the enabler device to facilitate delivery of the multicast content to the user device using the radio access bearer, the enabler mobile located in the cell for which the enable device enables delivery, the enabler device substantially fixed in position and distinct from a base station operable to communicate the multicast content to the user device, the enabler device further distinct from a base station controller.

Igarashi discloses an access router AR1 for delivering multicast content to MT located in a cell (Fig. 1A). Herein, AR1 is fixed and distinct from a base station or a base station controller. It would have been obvious to one having ordinary skilled in the art at the time the invention was made to include access routers in Toth's system, as suggested by Igarashi, to deliver multicast content to users.

With respect to claims 17, 19, and 21, Toth discloses communicating one or more parameters associated with the radio access bearer to an application server (page 4, 76<sup>th</sup>

paragraph – mobile terminal issues a membership report message which may contain information about the desired quality of service).

With respect to claims 22, 24, and 26, Toth discloses a method to provide a multicast service (Fig. 1), comprising:

activating at a multicast gateway support node a PDP context for a multicast service (page 4, 79<sup>th</sup> – GGSN sends a multicast context activation message to the SGSN), the multicast service facilitated by a plurality of enabler mobiles located in one or more cells (Fig. 1, RNCs of RAN1-RAN5 facilitate the multicast service. Herein, RNCs are enabler mobiles and they are located in more than one cell. As known in the art, RAN comprises RNC and BS), the plurality of enabler mobiles operates to deliver multicast content from a multicast source (Fig. 1, RNCs of RANs operate to deliver multicast content from MCS);

receiving an instruction to join a multicast tree for the multicast service and joining the multicast tree in response to the instruction (page 4, 86<sup>th</sup> paragraph – SGSN replies to the GGSN, whereby the SGSN, which including at least one processor, if not already a part, becomes a part of the multicast tree).

Toth does not disclose that each enabler mobile of the plurality of enabler mobiles substantially fixed in position and distinct from a base station operable to communicate the multicast content from the multicast source, each enabler mobile of the plurality of enabler mobiles further distinct from a base station controller, each enabler mobile located in the cell for which the enabler mobile enables delivery of multicast content.

Igarashi discloses an access router AR1 for delivering multicast content to MT located in a cell (Fig. 1A). Herein, AR1 is fixed and distinct from a base station or a base station controller. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include access routers in Toth's system, as suggested by Igarashi, to deliver multicast content to users.

With respect to claims 23, 25, 27, 32, 37, 42, and 44, Toth discloses receiving the multicast content communicated using a plurality of data packets (Fig. 1, SGSN1 and SGSN 2 receiving GTP7 and GTP8); and duplicating the data packets to create duplicated data packets for each enabler mobile of the plurality of enabler mobiles (Fig. 1, SGSN duplicates GTP7 for RAN 1 and RAN3).

With respect to claims 29, 34, 39, and 44, Toth discloses activating at a multicast gateway support node a PDP context for the multicast service (page 4, 79<sup>th</sup> – GGSN sends a multicast context activation message to the SGSN); and joining the multicast gateway support node to a multicast tree for the multicast service (page 4, 86<sup>th</sup> paragraph – SGSN replies to the GGSN, whereby the SGSN, which including at least one processor, if not already a part, becomes a part of the multicast tree).

4. Claims 5, 10, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toth and Igarashi further in view of Rodriguez Gil, R. et al (WO 03/039024 A2). Hereinafter, referred to as Toth, Igarashi and Rodriguez Gil.

With respect to claims 5, 10, and 15, Toth discloses a multicast network (Fig. 1). Toth does not disclose determining a signal power; calculating power control information from the signal power; and initiating adjustment of the signal power according to the power control information. Rodriguez Gil discloses determining a signal power; calculating power control information from the signal power; and initiating adjustment of the signal power according to the power control information (Fig. 3, quality level is determined whether greater than level max or lesser than level min, if yes, then, power out is adjusted). It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the feature of adjusting the power level in Toth's system, as suggested by Rodriguez Gil, to increase quality of service.

#### ***Response to Arguments***

5. Applicant's arguments with respect to claims 1-44 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hamaki et al (US Patent No. 5,600,635) discloses caller personal station equipped with simultaneous call function and multicast communication function.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H. Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

Application/Control Number:  
10/810,189  
Art Unit: 2616

Page 9

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to be 'Avl', with a long horizontal stroke extending to the right.

avl